



PROJECT HIGHLIGHT

AN ALL-IN-ONE CONTRACTOR PROVIDES MORE EFFECTIVE PARTNERSHIP ON REMEDIATION PROJECTS

When a single contractor is chosen for multiple remediation project needs, there is decreased risk for costly miscommunications, knowledge loss, or scheduling conflicts between multiple vendors.

LOCATION: Northeastern US

SERVICE: HRSC, Sampling, Injection

PROJECT OVERVIEW

A busy retail store was discovered to be the site of below ground contamination, featuring chlorinated volatile organic compounds (CVOC) and a petroleum hydrocarbon plume with residual LNAPL. Before remediation activities could be planned, a detailed conceptual site model (CSM) was needed to appropriately and cost effectively address the contaminants.

Cascade was brought in to provide high resolution site characterization (HRSC), well installation, and soil and groundwater sampling services. They then partnered with the client to design the remedy, select appropriate amendments, and manage injection of the chemistry.

RESULTS

It was imperative the impact of remediation activities be minimized so the retail business could continue to operate. To limit disruption, Cascade compressed the footprint for mixing and injection, and coordinated deliveries and staging of amendments.

Cascade injected activated carbon to sequester and treat the LNAPL. To increase dispersal, crews deployed a downhole oscillation tool that was developed in-house. A flow-through method with chemical oxidants was attempted to treat inaccessible CVOCs underneath the building.

Treatment at the site continues, informed by the CSM and optimized using real-time data collection provided by the monitoring wells.



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